Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-01-23-78** **Date: 13-12-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains in Jakkur Layout and Surrounding areas in Ward No.07 Byatarayanapura.
Agency	:	Executive Engineer,KRIDL,#280,59th Cross Road, 17th C Main Road, 3rd Y Block,Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/177/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-12-18
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	11-12-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.05%	–
2	Finess by Air permeablity method (m^2/kg,Min)	293.5	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore

CIVIL PRO Sig..... Date..... BANGALORE

****End of Report****

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-01-23-78** **Date: 08-01-19**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains in Jakkur Layout and Surrounding areas in Ward No.07 Byatarayanapura.
Agency	:	Executive Engineer,KRIDL,#280,59th Cross Road, 17th C Main Road, 3rd Y Block,Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/177/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-12-18
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	11-12-18
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	29.5N/mm2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm2	Not less than 37 N/mm^2
3	28 Days	56.0N/mm2	Not less than 53 N/mm^2

Note:
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AE(civil)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-01-23-78** **Date: 13-12-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains in Jakkur Layout and Surrounding areas in Ward No.07 Byatarayanapura.
Agency	:	Executive Engineer,KRIDL,#280,59th Cross Road, 17th C Main Road, 3rd Y Block,Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/177/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	10-12-18
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-12-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1215	1215	8.1	91.9	90-100
3	20 mm	5320	6535	43.6	56.4	30-70
4	10 mm	6255	12790	85.3	14.7	10-35
5	4.75 mm	1637	14427	96.2	3.8	0-5
6	Pan	573	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-01-23-78** **Date: 13-12-18**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.3	
3	Specific Gravity	2.66	_
4	Bulk Density(Loose) (Kg/l)	1.49	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.21	_

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-01-23-78** **Date: 12-12-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains in Jakkur Layout and Surrounding areas in Ward No.07 Byatarayanapura.
Agency	:	Executive Engineer,KRIDL,#280,59th Cross Road, 17th C Main Road, 3rd Y Block,Rajajinagara, Bangalore-560010.
Customer Reference	:	BBMP/EE/BTP/WO/177/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-12-18
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-12-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	429	429	8.6	91.4	90-100
3	10 mm	2435	2864	57.3	42.7	25-55
4	4.75 mm	1833	4697	93.9	6.1	0-10
5	Pan	303	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-01-23-78** **Date: 12-12-18**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.59	_
4	Bulk Density(Loose) (Kg/l)	1.48	_
5	Bulk Density(Compacted) (Kg/l)	1.55	_
6	Water Absorption(%)	0.23	_
7	Aggregate crushing Value(%)	21.98	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.9	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

AE(Rd)

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-01-23-78** **Date: 12-12-18**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.59	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	21.98	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.9	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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Authorized Signature
Quality Manager

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Bangalore.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-01-23-78** **Date: 12-12-18**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.7	_
2	Specific Gravity	2.54	_
3	Material finer than 75 micron(%)	7.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-01-23-78** **Date: 15-12-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains in Jakkur Layout and Surrounding areas in Ward No.07 Byatarayanapura.
Agency	:	Executive Engineer,KRIDL,#280,59th Cross Road, 17th C Main Road, 3rd Y Block,Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/177/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-12-18
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	14-12-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.396	512	656	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.614	526	670	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.886	544	664	20.0%	Satisfactory	Satisfactory

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2019-01-23-78**	**Date: 21-12-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and Drains in Jakkur Layout and Surrounding areas in Ward No.07 Byatarayanapura.	
Agency	:	Executive Engineer,KRIDL,#280,59th Cross Road, 17th C Main Road, 3rd Y Block,Rajajinagara, Bangalore-560010.	
Customer's Reference	:	BBMP/EE/BTP/WO/177/2018-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	17-12-18	
Sample Type /Size	:	Precast Cover Slab	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	17/12/2018	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.46	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.50	1.118	4476	81.5	18.2	16.9	21.2

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Quality Manager

AE(121)

Assistant Executive Engineer,
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-78** **Date: 27/12/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains in Jakkur Layout and Surrounding areas in Ward No.07 Byatarayanapura.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road, 17th C Main Road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/177/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-12-18

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	20/12/2018	27/12/2018	149.31 X 150.44 X 149.08	22463	**8.518**	286.5	12.8	12.7
2	PCC	M15	20/12/2018	27/12/2018	151.41 X 150.83 X 151.53	22837	**8.225**	284.0	12.4	
3	PCC	M15	20/12/2018	27/12/2018	151.85 X 149.38 X 150.19	22683	**8.960**	289.8	12.8	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(Retd)

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.,
Bangalore.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-78** **Date: 17/01/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains in Jakkur Layout and Surrounding areas in Ward No.07 Byatarayanapura.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road, 17th C Main Road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/177/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-12-18

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	20/12/2018	17/01/2019	149.28 X 149.02 X 151.38	22246	**8.941**	388.5	17.5	17.4
2	PCC	M15	20/12/2018	17/01/2019	149.99 X 151.85 X 150.43	22776	**8.153**	396.9	17.4	
3	PCC	M15	20/12/2018	17/01/2019	149.83 X 150.79 X 150.13	22592	**8.830**	387.9	17.2	

Note:

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer,
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-78** **Date: 27/12/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains in Jakkur Layout and Surrounding areas in Ward No.07 Byatarayanapura.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road, 17th C Main Road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/177/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-12-18

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	20/12/2018	27/12/2018	149.33 X 149.28 X 151.07	22291	**8.518**	276.9	12.4	12.3
2	PCC	M15	20/12/2018	27/12/2018	150.19 X 149.91 X 150.52	22516	**8.225**	275.1	12.2	
3	PCC	M15	20/12/2018	27/12/2018	151.12 X 151.08 X 149.49	22832	**8.960**	279.6	12.2	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(Retd)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-78** **Date: 17/01/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains in Jakkur Layout and Surrounding areas in Ward No.07 Byatarayanapura.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road, 17th C Main Road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/177/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-12-18

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	20/12/2018	17/01/2019	151.52 X 149.12 X 151.26	22594	**8.941**	399.8	17.7	17.6
2	PCC	M15	20/12/2018	17/01/2019	151.46 X 151.92 X 151.16	23010	**8.153**	414.0	18.0	
3	PCC	M15	20/12/2018	17/01/2019	149.85 X 151.20 X 149.88	22658	**8.830**	390.3	17.2	

Note:

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Applied N.D
AE(Ref)

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yeshwanthpur Zone, B.B.M.P
Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-78** **Date: 02/01/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains in Jakkur Layout and Surrounding areas in Ward No.07 Byatarayanapura.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road, 17th C Main Road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/177/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-12-18

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	26/12/2018	02/01/2019	150.20 X 150.83 X 152.00	22655	**8.792**	426.7	18.8	18.6
2	Drain Bottom Slab Concrete	M20	26/12/2018	02/01/2019	149.86 X 150.08 X 150.97	22492	**8.755**	410.9	18.3	
3	Drain Bottom Slab Concrete	M20	26/12/2018	02/01/2019	151.47 X 151.67 X 151.15	22973	**8.330**	428.2	18.6	

Note:

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AE(Rd)

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Kodigehalli Sub Division,
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Bangalore.

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Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-78** **Date: 23/01/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains in Jakkur Layout and Surrounding areas in Ward No.07

Agency : Executive Engineer,KRIDL,#280,59th Cross Road, 17th C Main Road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/177/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-12-18

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	26/12/2018	23/01/2019	149.74 X 150.82 X 150.40	22584	**8.609**	527.7	23.4	23.0
2	Drain Bottom Slab Concrete	M20	26/12/2018	23/01/2019	151.05 X 149.41 X 151.11	22568	**8.856**	505.8	22.4	
3	Drain Bottom Slab Concrete	M20	26/12/2018	23/01/2019	151.15 X 149.30 X 151.09	22566	**8.505**	526.4	23.3	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-78** **Date: 02/01/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains in Jakkur Layout and Surrounding areas in Ward No.07 Byatarayanapura.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road, 17th C Main Road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/177/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-12-18

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	26/12/2018	02/01/2019	149.46 X 149.91 X 150.65	22406	**8.792**	403.3	18.0	18.3
2	Drain Bottom Slab Concrete	M20	26/12/2018	02/01/2019	149.86 X 150.86 X 151.70	22608	**8.755**	415.4	18.4	
3	Drain Bottom Slab Concrete	M20	26/12/2018	02/01/2019	151.04 X 150.15 X 151.19	22680	**8.330**	421.1	18.6	

Note:

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AE(WO)

Assistant Executive Engineer,
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.,
Bangalore.

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

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Lab ID : **CP-2019-01-23-78** **Date: 23/01/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains in Jakkur Layout and Surrounding areas in Ward No.07 Byatarayanapura.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road, 17th C Main Road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/177/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-12-18

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	26/12/2018	23/01/2019	149.32 X 150.34 X 150.59	22448	**8.609**	528.6	23.5	23.1
2	Drain Bottom Slab Concrete	M20	26/12/2018	23/01/2019	149.80 X 149.47 X 149.73	22391	**8.856**	510.6	22.8	
3	Drain Bottom Slab Concrete	M20	26/12/2018	23/01/2019	150.88 X 151.21 X 149.64	22813	**8.505**	526.2	23.1	

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AE(HQ)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-78** **Date: 02/01/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains in Jakkur Layout and Surrounding areas in Ward No.07 Byatarayanapura.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road, 17th C Main Road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/177/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-12-18

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	26/12/2018	02/01/2019	150.38 X 151.54 X 150.28	22788	**8.792**	420.9	18.5	18.8
2	Drain Bottom Slab Concrete	M20	26/12/2018	02/01/2019	151.91 X 150.75 X 149.79	22900	**8.755**	435.0	19.0	
3	Drain Bottom Slab Concrete	M20	26/12/2018	02/01/2019	151.38 X 151.14 X 150.62	22880	**8.330**	432.3	18.9	

Note:

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Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

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Lab ID : **CP-2019-01-23-78** **Date: 02/01/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains in Jakkur Layout and Surrounding areas in Ward No.07 Byatarayanapura.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road, 17th C Main Road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/177/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-12-18

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	26/12/2018	02/01/2019	149.30 X 150.09 X 150.32	22408	**8.792**	421.9	18.8	18.7
2	Drain Bottom Slab Concrete	M20	26/12/2018	02/01/2019	149.37 X 150.44 X 149.99	22471	**8.755**	421.5	18.8	
3	Drain Bottom Slab Concrete	M20	26/12/2018	02/01/2019	151.84 X 149.06 X 150.62	22634	**8.330**	416.0	18.4	

Note:
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AE(KRIDL)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-78** **Date: 02/01/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains in Jakkur Layout and Surrounding areas in Ward No.07 Byatarayanapura.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road, 17th C Main Road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/177/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-12-18

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	26/12/2018	02/01/2019	150.76 X 151.54 X 149.67	22847	**8.792**	430.1	18.8	18.8
2	Drain Bottom Slab Concrete	M20	26/12/2018	02/01/2019	150.57 X 151.61 X 151.52	22829	**8.755**	427.5	18.7	
3	Drain Bottom Slab Concrete	M20	26/12/2018	02/01/2019	151.04 X 151.85 X 151.54	22934	**8.330**	435.0	19.0	

Note:
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AE(KRIDL)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

FOR CIVIL Pro.

R KARTHIK RECHAN
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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-78** **Date: 05/01/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains in Jakkur Layout and Surrounding areas in Ward No.07 Byatarayanapura.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road, 17th C Main Road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/177/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-12-18

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/12/2018	05/01/2019	149.24 X 150.66 X 149.65	22484	**8.792**	422.3	18.8	18.6
2	Drain Side Wall Concrete	M20	29/12/2018	05/01/2019	149.55 X 149.40 X 149.73	22343	**8.755**	416.3	18.6	
3	Drain Side Wall Concrete	M20	29/12/2018	05/01/2019	151.00 X 149.05 X 150.24	22507	**8.330**	416.6	18.5	

Note:

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(KRIDL)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL PRO BANGALORE Sig..... Date.....

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-78** **Date: 05/01/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains in Jakkur Layout and Surrounding areas in Ward No.07 Byatarayanapura.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road, 17th C Main Road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/177/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-12-18

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/12/2018	05/01/2019	149.85 X 151.97 X 151.53	22772	**8.792**	427.5	18.8	18.4
2	Drain Side Wall Concrete	M20	29/12/2018	05/01/2019	151.06 X 151.64 X 151.62	22908	**8.755**	412.8	18.0	
3	Drain Side Wall Concrete	M20	29/12/2018	05/01/2019	150.14 X 149.09 X 149.93	22384	**8.330**	411.1	18.4	

Note:

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AE(KRI)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-01-23-78** **Date: 05/01/2019**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains in Jakkur Layout and Surrounding areas in Ward No.07 Byatarayanapura.

Agency : Executive Engineer,KRIDL,#280,59th Cross Road, 17th C Main Road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/177/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-12-18

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/12/2018	05/01/2019	151.34 X 150.97 X 151.73	22847	**8.792**	421.2	18.4	18.5
2	Drain Side Wall Concrete	M20	29/12/2018	05/01/2019	150.91 X 150.39 X 151.30	22695	**8.755**	416.5	18.4	
3	Drain Side Wall Concrete	M20	29/12/2018	05/01/2019	150.03 X 151.71 X 151.80	22761	**8.330**	426.9	18.8	

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Customer's Reference : BBMP/EE/BTP/WO/177/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-12-18

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/12/2018	05/01/2019	149.97 X 150.33 X 151.07	22545	**8.792**	424.4	18.8	18.9
2	Drain Side Wall Concrete	M20	29/12/2018	05/01/2019	149.19 X 149.74 X 150.28	22340	**8.755**	422.6	18.9	
3	Drain Side Wall Concrete	M20	29/12/2018	05/01/2019	151.91 X 151.37 X 149.10	22996	**8.330**	433.0	18.8	

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Agency : Executive Engineer,KRIDL,#280,59th Cross Road, 17th C Main Road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/177/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-12-18

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/12/2018	05/01/2019	149.81 X 150.60 X 150.69	22562	**8.792**	419.1	18.6	18.8
2	Drain Side Wall Concrete	M20	29/12/2018	05/01/2019	149.02 X 150.93 X 149.39	22491	**8.755**	422.4	18.8	
3	Drain Side Wall Concrete	M20	29/12/2018	05/01/2019	151.12 X 149.98 X 149.48	22666	**8.330**	429.3	18.9	

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Authorized Signatory
Quality Manager

Assistant Executive Engineer,
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Agency : Executive Engineer,KRIDL,#280,59th Cross Road, 17th C Main Road, 3rd Y Block,Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/177/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-01-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/01/2019	10/01/2019	151.58 X 151.76 X 149.55	23005	**8.419**	592.5	25.8	25.6
2	Cement Concrete Pavement	M30	03/01/2019	10/01/2019	149.06 X 149.05 X 149.18	22218	**8.589**	588.6	26.5	
3	Cement Concrete Pavement	M30	03/01/2019	10/01/2019	150.80 X 151.74 X 149.80	22883	**8.524**	563.6	24.6	

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Customer's Reference : BBMP/EE/BTP/WO/177/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-01-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/01/2019	10/01/2019	149.56 X 149.12 X 150.64	22303	**8.419**	571.9	25.6	25.7
2	Cement Concrete Pavement	M30	03/01/2019	10/01/2019	149.78 X 150.42 X 151.50	22530	**8.589**	608.3	27.0	
3	Cement Concrete Pavement	M30	03/01/2019	10/01/2019	151.16 X 151.96 X 149.46	22971	**8.524**	562.1	24.5	

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Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-01-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/01/2019	10/01/2019	150.21 X 151.92 X 151.03	22821	**8.419**	570.9	25.0	25.3
2	Cement Concrete Pavement	M30	03/01/2019	10/01/2019	149.18 X 149.51 X 149.88	22304	**8.589**	583.8	26.2	
3	Cement Concrete Pavement	M30	03/01/2019	10/01/2019	149.06 X 149.74 X 151.63	22321	**8.524**	548.9	24.6	

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Customer's Reference : BBMP/EE/BTP/WO/177/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-01-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/01/2019	10/01/2019	150.22 X 150.11 X 149.74	22551	**8.419**	580.7	25.7	25.7
2	Cement Concrete Pavement	M30	03/01/2019	10/01/2019	151.08 X 149.96 X 150.48	22656	**8.589**	605.3	26.7	
3	Cement Concrete Pavement	M30	03/01/2019	10/01/2019	151.92 X 149.39 X 150.84	22696	**8.524**	557.8	24.6	

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